

Active GRSM Research Permits 2015

Study #	STUDY_TITLE	First Name	Last Name	Institution	PERMIT_ID	Expir. Date	Type	Topic
GRSM-00001	Inventory and Long-term Ecological Monitoring.	Paul E.	Super	National Park Service	GRSM-2015-SCI-0001	12/31/2016	inventory	Plants
GRSM-00003	Primeval forest dynamics along the elevation gradient in the Great Smoky Mountains.	Richard	Busing	Oregon State University	GRSM-2014-SCI-0003	12/31/2016	research	Plants
GRSM-00031	Long-term monitoring of vernal pond amphibians in the Cades Cove area.	Tiffany	Beachy	Great Smoky Mtns. Institute	GRSM-2014-SCI-0031	12/31/2016	monitoring	Amphibians
GRSM-00050	Monitoring of rare fish species in Abrams Creek.	Pat	Rakes	Conservation Fisheries, Inc.	GRSM-2013-SCI-0050	12/31/2017	monitoring	Water, Fish, and Stream Life
GRSM-00052	Bacterial and Archaeal Diversity in Soils and Waters of Great Smoky Mountains National Park.	Sean	O'Connell	Western Carolina University	GRSM-2014-SCI-0052	12/31/2016	inventory	Fungi, Algae, Lichens, Bacteria
GRSM-00061	EDUCATION PERMIT--Field exercises on salamander diversity in the Great Smoky and Balsam Mountains.	Joseph	Pechmann	Western Carolina University	GRSM-2014-SCI-0002	12/31/2015	monitoring	Amphibians
GRSM-00061	EDUCATION PERMIT: Ecology Biodiversity Laboratory Exercise	Mary	Sledge	Lipscomb University	GRSM-2013-SCI-0061	12/31/2015	education	Plants
GRSM-00061	Salamander Evolution in the Smokies.	Evin	Carter	University of Tennessee	GRSM-2015-SCI-0002	12/31/2015	education	Amphibians
GRSM-00061	EDUCATION PERMIT: Mountain Stream Study.	Melissa	Hutchinson	Camp Wesley Woods	GRSM-2014-SCI-0006	5/31/2015	education	Water, Fish, and Stream Life
GRSM-00061	Student Research Project 2015: A Comparison of Salamander Diversity Between Low Altitude and High Altitude Locations.	Scott	Eckert	Principia College	GRSM-2015-SCI-0061	5/1/2015	education	Amphibians
GRSM-00069	Discover Life in America Volunteer Project Teams for the ATBI.	Todd	Witcher	Discover Life in America	GRSM-2014-SCI-0069	12/31/2015	inventory	Land Insects, Spiders, etc.
GRSM-00082	Tardigrade and Rotifer Inventory	Paul	Bartels	Warren-Wilson College	GRSM-2014-SCI-0082	12/31/2015	inventory	Land Insects, Spiders, etc.
GRSM-00092	The Evolutionary Genetics of Mushroom-feeding Drosophila.	Kelly	Dyer	University of Georgia	GRSM-2014-SCI-0092	12/31/2015	research	Land Insects, Spiders, etc.
GRSM-00093	Long-term study of Plethodon hybrid zones	Joseph	Pechmann	Western Carolina U.	GRSM-2011-SCI-0002	12/31/2015	education	Amphibians
GRSM-00096	Fireflies of the Great Smoky Mountains National Park.	Lynn	Faust	independent	GRSM-2013-SCI-0096	12/31/2015	research	Land Insects, Spiders, etc.

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GRSM-00134	ATBI Mammal Investigation	Donald	Linzey	Virginia Tech University	GRSM-2014-SCI-0134	12/31/2015	inventory	Mammals
GRSM-00222	Molecular Systematics of Midges (Diptera: Thaumaleidae, Blephariceridae, and Dixidae).	Kevin	Moulton	University of Tennessee	GRSM-2015-SCI-0222	12/31/2015	research	Water, Fish, and Stream Life
GRSM-00228	ATBI Microfungi Study: Comparison of microfungi within healthy and declining American Beech and Frazier Fir stands in GSMNP and Blue Ridge Parkway.	Richard	Baird	Mississippi State University	GRSM-2014-SCI-0228	12/31/2015	research	Fungi, Algae, Lichens, Bacteria
GRSM-00229	Studies of the fleshy fungi of GSMNP, emphasis on stipitate hydnums and other mycorrhizal fungi.	Richard	Baird	Mississippi State University	GRSM-2014-SCI-0229	12/31/2015	inventory	Fungi, Algae, Lichens
GRSM-00275	Collection of Hemlock Woolly Adelgid Used for Rearing Predatory Beetles of the Adelgid.	James	Parkman	University of Tennessee	GRSM-2014-SCI-0275	12/31/2016	management	Land Insects, Spiders, etc.
GRSM-00310	Amphibian Inventory in the Southern Appalachian Mountain Region of Western North Carolina.	Lori	Williams	NC Wildlife Resources	GRSM-2013-SCI-0310	12/31/2015	inventory	Amphibians
GRSM-00334	Continuing Studies of Aquatic Insects Of GRSM	Chuck	Parker	USGS	GRSM-2011-SCI-0027	12/31/2015	inventory	Water, Fish, and Stream Life
GRSM-00341	Turbellaria Flatworm Diversity in Great Smoky Mountains National Park and Environmental Factors of Distribution	Benny	Glasgow	Discover Life in America	GRSM-2015-SCI-0341	12/31/2015	inventory	Water, Fish, and Stream Life
GRSM-00376	A fungal inventory of the wood- and dung-inhabiting pyrenomycetes of the Great Smoky Mountains National Park.	Andrew	Miller	University of Illinois	GRSM-2014-SCI-0376	12/31/2017	inventory	Fungi, Algae, Lichens, Bacteria
GRSM-00414	Long-term vegetation dynamics in a Great Smoky Mountains NP plot	Erin	Tripp	University of Colorado	GRSM-2013-SCI-0414	12/31/2016	research	Plants
GRSM-00452	Ranavirus surveillance in Great Smoky Mountains National Park.	Matt	Gray	University of Tennessee	GRSM-2014-SCI-0452	12/31/2015	research	Amphibians
GRSM-00461	US Forest Service Southern Research Station Forest Inventory & Analysis	Dale	Trenda	USFS	GRSM-2015-SCI-0461	12/31/2019	monitoring	Plants
GRSM-00493	Measuring, Modeling, and Understanding Orographic Precipitation Regimes and Hydrology in Mid-Latitude Mountain Regions	Ana	Barros	Duke University	GRSM-2013-SCI-0493	12/31/2015	research	Air: Precipitation, Pollution, Climate
GRSM-00554	Monarch Butterfly Tagging: Monarch Watch.	Tiffany	Beachy	Great Smoky Mtns. Institute	GRSM-2014-SCI-0554	12/31/2015	research	Land Insects, Spiders, etc.

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GRSM-00823	Conduct the Cades Cove and Newfound Gap Breeding Bird Surveys within the Great Smoky Mountains National Park and Blue Ridge Parkway.	Mark	Armstrong	Knoxville Zoo	GRSM-2010-SCI-0035	12/31/2015	monitoring	Birds
GRSM-00825	Further studies of the lichens and lichenciolous fungi of Great Smoky Mountains National Park	James	Lendemer	NY Botanical Garden	GRSM-2015-SCI-0825	12/31/2019	inventory	Fungi, Algae, Lichens, Bacteria
GRSM-00851	Bat hibernacula census.	David	Pelren	USFWS	GRSM-2013-SCI-9851	8/31/2015	monitoring	Mammals
GRSM-00851	Bat Hibernacula Monitoring and White Nose Syndrome Surveillance	Gabrielle	Graeter	NC Wildlife Resources	GRSM-2013-SCI-0851	12/31/2015	monitoring	Mammals
GRSM-00862	Studies of Ectomycorrhizal Fungal Associates of Fraser Fir Habitats and Their Use for Reforestation of Former Sites in the Southern Appalachian Mountains.	Richard	Baird	Mississippi State University	GRSM-2014-SCI-0862	12/31/2016	research	Fungi, Algae, Lichens, Bacteria
GRSM-00867	Spatial structure of Trillium catesbaei populations in Cades Cove and Whiteoak Sink.	Michael	Jenkins	Purdue University	GRSM-2013-SCI-0867	12/31/2015	research	Plants
GRSM-01028	The Influence Of Climate Change On The Resilience Of Brook Trout Populations In The Appalachian Mountains: Understanding The Role Of Watershed Physiographic Features On Air And Water Temperatures And Trout Habitat	Andrew	Dolloff	Virginia Tech University	GRSM-2014-SCI-1028	12/31/2016	research	Water, Fish, and Stream Life
GRSM-01030	Climate Vulnerability of Southern Appalachian Forests	James	Clark	Duke University	GRSM-2014-SCI-1030	12/31/2017	research	Plants
GRSM-01048	Mushrooms of the Smokies	Patrick	Matheny	University of Tennessee	GRSM-2015-SCI-1048	12/31/2015	inventory	Fungi, Algae, Lichens, Bacteria
GRSM-01049	Comparison of fungal species from the Great Smoky Mountains National Park with putatively conspecific collections from Europe and Asia	Karen	Hughes	University of Tennessee	GRSM-2014-SCI-1049	12/31/2015	research	Fungi, Algae, Lichens, Bacteria
GRSM-01051	National Ecological Observatory Network: LeConte Creek (Twin Creeks Research Lab) Aquatic Site Characterization.	Amy	Little	NEON	GRSM-2015-SCI-1051	3/31/2015	research	Water, Fish, and Stream Life
GRSM-01053	Monitoring Flight Behavior of Bats in Response to White Nose Syndrome Fungal Infections.	Gary	McCracken	University of Tennessee	GRSM-2014-SCI-1053	4/30/2015	research	Mammals

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GRSM-01057	Climate Niche Modeling of the rock cress (Arabidopsis lyrata subsp. lyrata) in North-America and Adaptation to Abiotic Stress Over its Latitudinal Distribution.	Yvonne	Willi	University of Neuchâtel, Switzerland	GRSM-2015-SCI-0003	12/31/2015	research	Plants
GRSM-01071	Disentangling the constraints on the distribution of ant species in Great Smoky Mountains National Park.	Lacy	Chick	University of Tennessee	GRSM-2013-SCI-1071	12/31/2015	research	Land Insects, Spiders, etc.
GRSM-01077	Phenology Monitoring in the Smokies.	Paul E.	Super	National Park Service	GRSM-2014-SCI-1077	12/31/2016	research	Plants
GRSM-01079	Salamander Monitoring Citizen Science Study.	Paul E.	Super	National Park Service	GRSM-2014-SCI-1079	12/31/2016	monitoring	Amphibians
GRSM-01082	Hemlock Woolly Adelgid Insecticide Treatment Assessment in Great Smoky Mountains National Park.	Elizabeth	Benton	University of Tennessee	GRSM-2013-SCI-1082	12/31/2015	research	Land Insects, Spiders, etc.
GRSM-01089	Developing Indicators for Comparative Watershed Mercury Burdens: Dragonfly Larvae Study.	Sarah	Nelson	University of Maine	GRSM-2014-SCI-1089	12/31/2015	research	Water, Fish, and Stream Life
GRSM-01093	Community-level Effects of Defensive Endosymbionts.	John	Jaenike	University of Rochester	GRSM-2014-SCI-1093	12/31/2015	research	Land Insects, Spiders, etc.
GRSM-01101	Investigating Potential Impacts of Hemlock Decline on Stream-Side Birds in the Walker Valley.	Tiffany	Beachy	Great Smoky Mountains Institute	GRSM-2014-SCI-1101	12/31/2016	research	Birds
GRSM-01105	The contribution of history versus climate to geographic range limits: A case study of the genera Trillium and Phacelia.	Stephanie	Erlandson	University of Minnesota	GRSM-2013-SCI-1105	12/31/2016	research	Plants
GRSM-01118	Stream Monitoring Information Exchange - volunteer benthic macroinvertebrate monitoring	Gracia	O'Neill	Environ. Quality Institute	GRSM-2014-SCI-1118	12/31/2016	monitoring	Water, Fish, and Stream Life
GRSM-01120	Cemetery and Gravestone Inventory of Cades Cove.	William	Lovekamp	Eastern Illinois University	GRSM-2015-SCI-1120	12/31/2015	research	Cultural
GRSM-01130	Reference Stand Characteristics of Old-Growth Spruce Forests in the Great Smoky Mountains National Park.	Corinne	Diggins	Virginia Tech University	GRSM-2015-SCI-1130	12/31/2016	research	Plants
GRSM-01136	Climate Change Sentinel Monitoring--Southeastern Monitoring Network (SEMN).	Jon	Mollish	TVA	GRSM-2013-SCI-0002	12/31/2017	monitoring	Water, Fish, and Stream Life

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GRSM-01136	Southeastern Monitoring Network (SEMN)-- Cataloochee Creek Site.	Steven	Beaty	NC Dept of Env and Natural Resources	GRSM-2013-SCI-1136	12/31/2017	monitoring	Water, Fish, and Stream Life
GRSM-01139	Laricobius osakensis Release For HWA Control.	Jesse	Webster	NPS	GRSM-2013-SCI-1139	12/31/2015	management	Land Insects, Spiders, etc.
GRSM-01157	Identification and Screening of Eastern Hemlock Survivors of Hemlock Woolly Adelgid Infestation as a Genetic Resource for Reforestation.	Benjamin	Smith	North Carolina State University	GRSM-2015-SCI-1157	12/31/2015	research	Plants
GRSM-01161	Soil Respiration Monitoring.	Tiffany	Beachy	Great Smoky Mountains Institute	GRSM-2014-SCI-1161	12/31/2016	education	Soils and Land Ecology
GRSM-01162	Determining Didymosphenia geminata (Didymo) distribution and colonization potential in streams within Great Smoky Mountains National Park	Justin	Murdock	Tennessee Technical University	GRSM-2014-SCI-1162	12/31/2015	research	Fungi, Algae, Lichens, Bacteria
GRSM-01164	Collection of Ash Tree Seeds for Genetic Preservation, Great Smoky Mountains National Park.	Jesse	Webster	National Park Service	GRSM-2014-SCI-1164	12/31/2015	research	Plants
GRSM-01165	Proposal to core trees and install temperature data loggers at Great Smoky Mountain National Park to understand the effects of global climate change on forests.	Andrew	Elmore	University of Maryland	GRSM-2014-SCI-1165	12/31/2015	research	Soils and Land Ecology
GRSM-01169	Landslide Inventory, Susceptibility, and Risk Assessment of West Prong Little Pigeon River Watershed, Great Smoky Mountains National Park.	Matthew	Marinelli	Kent State University	GRSM-2014-SCI-1169	12/31/2015	research	Geology
GRSM-01171	Search for Undocumented Odonata.	Larry	Everett	TN Dept Environment and Conservation	GRSM-2014-SCI-1171	12/31/2015	inventory	Water, Fish, and Stream Life
GRSM-01172	Elucidation of Migratory Pathways and Over- Wintering Sites of the Louisiana Waterthrush, Parkesia motacilla.	Steven	Latta	National Aviary	GRSM-2014-SCI-1172	12/31/2015	research	Birds
GRSM-01173	Data Gathering Study on American Chestnut Trees along the Appalachian National Scenic Trail within the Framework of the A.T MEGA- Transect	Kathleen	Marmet	American Chestnut Foundation	GRSM-2014-SCI-1173	12/31/2016	research	Plants

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GRSM-01175	Sampling Techniques for Aquatic Macroinvertebrates: Studies of Canes Creek, Sam's Creek, and Thunderhead Prong	David	Unger	Maryville College	GRSM-2014-SCI-1175	12/31/2015	education	Water, Fish, and Stream Life
GRSM-01182	Investigating Intraspecific Variability of Responses of Appalachian Plant Species to Climatic Change Toward an Improved Understanding of Species Migration.	Jennifer	Boyd	University of Tennessee at Chattanooga	GRSM-2015-SCI-1182	12/31/2015	research	Plants
GRSM-01184	The Genetic Structure of Populations, Conservation and Natural History of <i>Geum radiatum</i> and the Implications for its Future Survival on a Changing Earth.	Nikolai	Hay	Appalachian State University	GRSM-2014-SCI-1184	12/31/2015	research	Plants
GRSM-01185	Field Testing the BRCK.	Shadrock	Roberts	University of Georgia	GRSM-2014-SCI-1185	9/30/2015	research	Other
GRSM-01187	Effects of Fire on Stream Chemistry After Six Months.	Melissa	Crisp	Pi Beta Phi School	GRSM-2014-SCI-1187	6/30/2015	education	Water, Fish, and Stream Life
GRSM-01190	Effects of Tornado Impact on River Channel Geomorphology, Abrams Creek, Great Smoky Mountains National Park.	Gregory	Pierce	Clemson University	GRSM-2014-SCI-1190	12/31/2016	research	Water, Fish, and Stream Life
GRSM-01192	Golden Eagle Photo Trapping Project.	Paul	Super	National Park Service	GRSM-2015-SCI-1192	3/31/2015	inventory	Birds
GRSM-01193	Determining the Presence and Distribution of the Eastern Spotted Skunk (<i>Spilogale putorius</i>) in North Carolina.	James	Fowler	NC Wildlife Resources	GRSM-2015-SCI-1193	3/16/2015	inventory	Mammals
GRSM-01194	Layers of Biodiversity.	Katherine	Mathews	Western Carolina University	GRSM-2015-SCI-1194	5/31/2015	research	Plants
GRSM-01195	Effects of Fire Severity on the Herbaceous Plant Species of Xeric Pine-Oak Forests in Great Smoky Mountains National Park.	Sean	Binninger	Western Carolina University	GRSM-2015-SCI-1195	12/31/2015	research	Plants
GRSM-01196	A GIS Inventory and Risk Analysis of Landslides in the Great Smoky Mountain National Park.	Catherine	Hatfield	Maryville College	GRSM-2015-SCI-1196	12/31/2015	research	Geology
GRSM-01200	National Ecological Observatory Network (NEON) Terrestrial Observation System - Mosquitoes	Amy	Little	NEON	GRSM-2015-SCI-1200	12/31/2019	research	Land Insects, Spiders, etc.
GRSM-01201	National Ecological Observatory Network (NEON) Terrestrial Observation System - Tick Collection	Amy	Little	NEON	GRSM-2015-SCI-1201	12/31/2019	research	Land Insects, Spiders, etc.

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GRSM-02276	Wildlife Parasite Identification and Epidemiology.	Richard	Gerhold	University of Tennessee	GRSM-2013-SCI-2276	12/31/2015	research	Mammals
GRSM-02279	Vascular Plants of North Carolina Region of Great Smoky Mountains National Park.	Dan	Pittillo	Western Carolina University	GRSM-2013-SCI-2279	12/31/2015	inventory	Plants
GRSM-02336	Temperature as a Driver of Aquatic Insect Species Distributions.	David	Buchwalter	North Carolina State University	GRSM-2014-SCI-2336	12/31/2016	research	Water, Fish, and Stream Life